**Mineral Identification Project**

 To better understand and identify minerals, you will create a brochure that illustrates information about minerals. The brochure will examine what a mineral is composed of, how a mineral is formed, where a mineral can be located, how a mineral is used commercially, and general facts about a mineral. You will work alone on this project. This project will be due in two weeks. Grades will be based on content, quality, and appearance. The following criteria must be fulfilled :

 **1. Choose one of the following minerals to research.**

 Aluminum

 Apatite

 Aragonite

 Arsenic

 Asbestos

 Barite

 Bismuth

 Biotite

 Calcite

 Chalcopyrite

 Chromium

 Cinnabar

 Cobalt

 Copper

 Diamond

 Dolomite

 Feldspar

 Fluorite

 Galena

 Gold

 Graphite

 Gypsum

 Halite

 Iron Ore

 Lead

 Magnesium

 Magnetite

 Malachite

 Manganese

 Mercury

 Muscovite

 Nickel

 Olivine

 Opal

 Pyrite

 Quartz

 Silver

 Sulfur

 Talc

 Tin

 Titanium

 Zinc

 **2. Create the following panels :**

 **Panel #1 : Title Of Brochure**

 - Include your title, name, date, and picture

 **Panel #2 : Physical Properties of the mineral.**

 1. Appearance – *Color of the mineral*

 2. Hardness – *1 to 10 on the Moh’s Hardness Scale*

 3. Luster – *Metallic, Adamantine, Resinous, Vitreous, Pearly, Greasy, Silky, Dull, Earthy*

 4. Streak – *Color of mineral powder*

 5. Cleavage / Fracture – *Perfect, Conchoidal, Jagged, Splintery, Uneven*

 - Include a picture

 **Panel #3** : **Determine the Mineral Characteristics of the mineral.**

 1. Crystal Form – *Cubic, Hexagonal, Monoclinic, Orthorhombic, Tetragonal, Triclinic*

 2. Chemical Composition - *Elemental or Compound*

 3. Specific Gravity - *How many times more the mineral weighs compared to water*

 4. Tenacity – *How easy the mineral breaks (elastic, ductile, malleable, flexible, etc.)*

 5. Transparency – *Transparent, Transluscent, Opaque*

 - Include a picture

 **Panel #4** : **Identify 10 different Mineral Locations.**

 - List 10 locations where the mineral can be extracted.

 - Include a picture

 **Panel #5 : Identify 10 different Commercial Uses of the mineral.**

 - List 10 commercial uses of the mineral.

 - Include a picture

 **Panel #6** : **Identify 10 different** **Mineral Facts**.

 - List 10 facts about the mineral you chose to research.

 - Include a picture.

 **Appearance**

 : Do not use paragraphs, (Use dot-jots – except for facts)

 : Fill up the page (avoid “dead space”)

 : Put a heading on each panel (Symptoms, Help Section, etc.)

 **3. Hints For Neatness**

 - Use subheadings for each category on your brochure.

 - Bullet information (DO NOT use large paragraphs of information)

 - Copied Internet pages will result in a “Missing Grade = 0 Points”

**GRADING RUBRIC**

**EX = Exceeding MT = Meeting DV = Developing BG = Beginning**

- All Content Present - 1-2 Content Pieces Missing - 3-4 Content Pieces Missing - 5+ Content Pieces Missing

- All Pictures Present - 1 Picture Missing - 2 Pictures Missing - 3+ Pictures Missing

- Use Of Bulleted Dot-Jots - Use Of Bulleted Dot-Jots - Lacking Dot-Jots - Bulky Text (Paragraphs)

- No Dead Space Present - No Dead Space Present - Text Crunched & Dead Space - Text Crunched & Dead Space

- Attractive & Organized - Attractive & Organized - Lacks Organization - Messy & Disorganized